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Randy L. Walter
AIRPORT MAP DISPLAY SYSTEM AN

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Atty. Docket No. Express Mail No.

Page 1 of 4

SMI33 P-305 EV021497360US

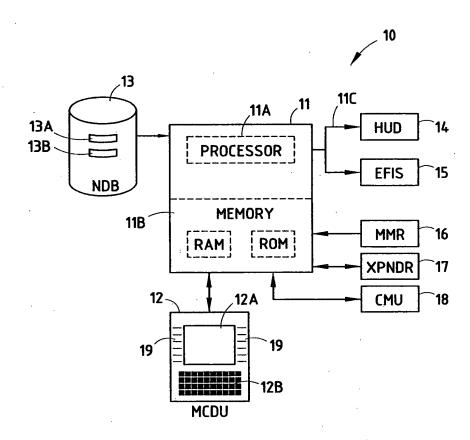


FIG. 1

WORD #

Randy I., Walter
AIRPORT MAP DISPLAY SYSTEM AND

SMI33 P-305

Atty. Docket No. Express Mail No. Page 2 of 4

ŞΣ		DATA	RANGE	RESOLUTION	LABEL
10	2	01 LATITUDE POINT 1	20 BITS	.00017 DEG	
00	-	LONGITUDE POINT 1	20 BITS	.00017 DEG	100 FOR
00 L	–	LATITUDE POINT 2	20 BITS	.00017 DEG	ACT TAXI
8	لن ا	00 LONGITUDE POINT 2	20 BITS	.00017 DEG	PATH
#	ľ	CONIC SUBTENDED ANGLE	12 BITS	.0439 DEG	300 FOR
=	٦	CONIC RADIUS	15 BITS	.0078125 nm	MOD TAXI
=	U	CONIC INITIAL ANGLE	12 BITS	.0439 DEG	PATH
200	-	LATITUDE POINT 3	20 BITS	.00017 DEG	040 FOR
8		LONGITUDE POINT 3	20 BITS	.00017 DEG	TAXIWAY
• •		• •			300 FOR
1 00		00 LATITUDE POINT 1	20 BITS	.00017 DEG	RUNWAY
1 0 2	-	LONGITUDE POINT 1	20 BITS	.00017 DEG	·
	I				

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WORD SS	SS	DATA	RANGE	RESOLUTION	LABEL
-	2	01 LATITUDE	20 BITS	.00017 DEG	.00017 DEG 104 FOR RUNWAY IDENT
2	8	00 LONGITUDE	20 BITS	.00017 DEG	004 FOR RUNWAY IDENT
m	8	00 TEXT (3 ASCII)	7 BITS EACH	1	
7	2	10 TEXT (3 ASCII)	7 BITS EACH	1	-

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Page 3 of 4

△Lat = (Lat - Ref Lat) ×Earth Radius

 Δ Lon = (Lon - Ref Lon) ×Cos ((Lat + RefLat)/2)

Course = Arctan (ALon/ALat)

Distance = $Sqrt(\Delta Lat^2 + \Delta Lon^2)$

Scale = Distance×10

New Lat = Ref Lat + Scale×Cos(Course)/Earth Radius

(Earth Radius×Cos ((Ref Lat + New Lat)/2 New Lon = Ref Lon + Scale×Sin (Course),

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Applicant For

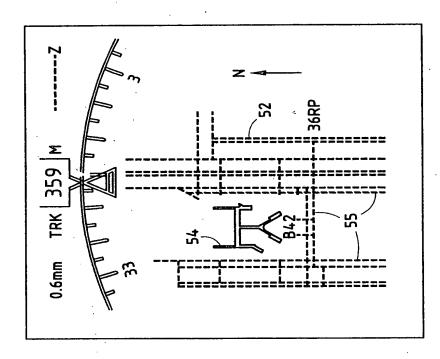
Atty. Docket No. Express Mail No. Page 4 of 4

Randy L. Walter AIRPORT MAP DISPLAY SYSTEM A METHOD SMI33 P-305

EV021497360US



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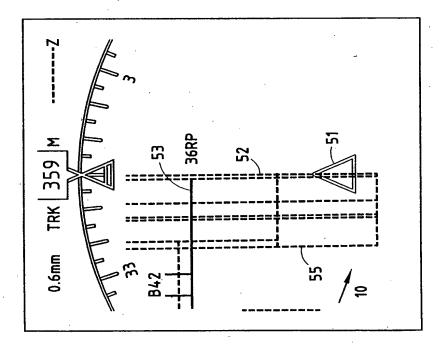


FIG. 5